

CLAIMS:

We claim:

1. An adhesive comprising a resin selected from the group consisting of polyvinyl butyral, phenolic resins, epoxy resins, and mixtures thereof, and a first filler comprising a carbon filler.

2. An adhesive in accordance with claim 1, wherein said carbon filler is a fluorinated carbon filler.

3. An adhesive in accordance with claim 2, wherein said fluorinated carbon has the formula CF_x , wherein x is a number of from about 0.01 to about 1.5.

4. An adhesive in accordance with claim 3, wherein x is a number of from about 0.04 to about 1.4.

5. An adhesive in accordance with claim 2, wherein said fluorinated carbon is selected from the group consisting of fluorinated carbon having about 28 percent by weight fluorine, a fluorinated carbon having about 11 percent by weight fluorine, a fluorinated carbon having about 62 percent by weight fluorine, and a fluorinated carbon having about 65 percent by weight fluorine, based on the weight of fluorinated carbon.

6. An adhesive in accordance with claim 1, wherein said phenolic resin is selected from the group consisting of nitrile phenolic, epoxy phenolic, and mixtures thereof.

7. An adhesive in accordance with claim 1, wherein said resin comprises polyvinyl butyral and phenolic resins.

8. An adhesive in accordance with claim 7, wherein said phenolic resin is a phenolic acrylic resin.

9. An adhesive in accordance with claim 1, wherein said adhesive is crosslinked.

10. An adhesive in accordance with claim 1, further comprising a second filler selected from the group consisting of carbon filler different from the first carbon filler, doped metal oxide filler, polymer filler, and mixtures thereof.

11. An adhesive in accordance with claim 10, wherein said carbon filler different from said first carbon filler is selected from the group consisting of carbon black and graphite.

12. An adhesive in accordance with claim 10, wherein said doped metal oxide fillers comprise antimony doped tin oxide.

13. An adhesive in accordance with claim 10, wherein said polymer fillers are selected from the group consisting of polytetrafluoroethylene, polypyrrole, polythiophene, and polyaniline.

14. An adhesive in accordance with claim 1, having a volume resistivity of from about 10^1 to about 10^{13} ohm-cm.

15. An adhesive in accordance with claim 14, wherein said volume resistivity is from about 10^8 to about 10^{11} ohm-cm.

16. An adhesive comprising a resin selected from the group consisting of polyvinyl butyral, phenolic resins, epoxy resins, and mixtures thereof, and a fluorinated carbon having the formula CF_x , wherein x is a number of from about 0.01 to about 1.5.

17. An adhesive comprising polyvinyl butyral and phenolic resins, and a fluorinated carbon selected from the group consisting of fluorinated carbon having about 28 percent by weight fluorine, a fluorinated carbon having about 11 percent by weight fluorine, a fluorinated carbon having about 62 percent by weight fluorine, and a fluorinated carbon having about 65 percent by weight fluorine, based on the weight of fluorinated carbon.